

Deuterium Solvent for Impurity Confirmation and Quantitative Test High Purity NMR Solvent

This series is a solvent for NMR measurement with high purity that reduces impurities that affect NMR measurement. No signal other than water and protium solvent* is observed in those products. This products do not contain impurities of other deuterium solvents and guarantees a low water content. So it is useful when conducting quality tests of pharmaceutical products and quantitative NMR (qNMR).

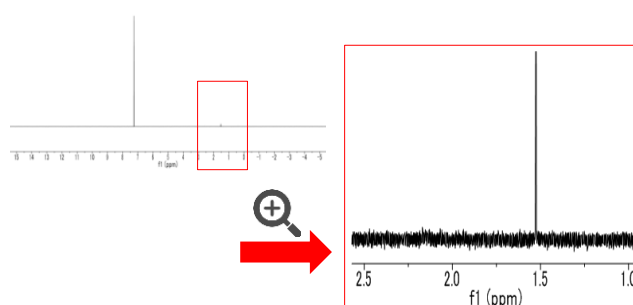
*A signal with an intensity difference of 30% or more from the baseline.

Features

○Specification [Chloroform-d, 99.8% (High purity)]

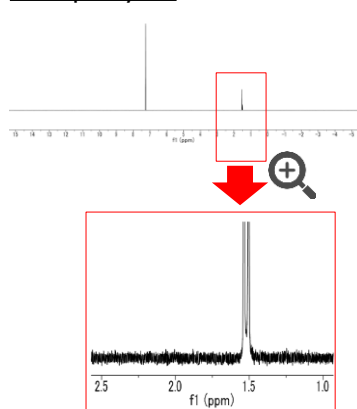
Requirement	Specification
Appearance	Colorless clear liquid
Water	max. 0.003%
Degree of deuteration	min. 99.8%
Assay (capillary GC)	min. 99.9%
Impurities (NMR) (¹ H)	to pass test
Impurities (NMR) (¹³ C)	to pass test
Impurities (NMR) (³¹ P)	to pass test
Impurities (NMR) (¹⁹ F)	to pass test

○¹H NMR chart [Chloroform-d, 99.8% (High purity)]

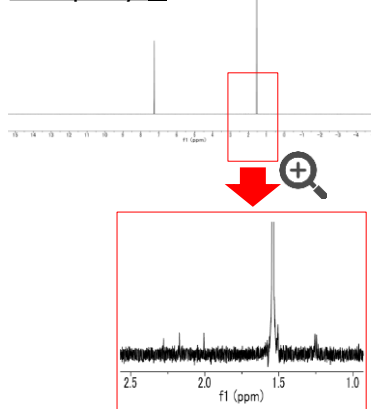


○¹H NMR chart [Chloroform-d (Competitors' products)]

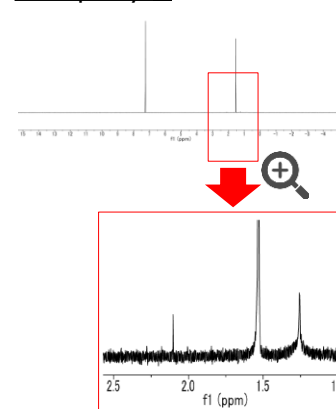
Company A



Company B




Company C



	Chloroform-d			
	Wako	Company A	Company B	Company C
Water	max. 0.003%	0.005% (CoA) max. 0.02%	0.0013% (CoA) max. 0.01%	0.0015% (CoA) max. 0.01%
Assay	min. 99.9%	100% (CoA)	min. 99%	min. 99%
Impurities (NMR) (¹ H)	to pass test	Water peak (1.49 ppm)	Impurity peaks (1.24, 1.51, 2.00, 2.16 ppm)	Impurity peaks (1.25, 1.51, 2.10ppm)
Impurities (NMR) (¹³ C)	to pass test			
Impurities (NMR) (³¹ P)	to pass test	-	-	-
Impurities (NMR) (¹⁹ F)	to pass test			











Product List

Coming Soon!

Code No.	Product Name	Grade	Volume
015-28131	Acetone-d ₆ , 99.9% (High purity)	for NMR	1 mL×5A
031-25531	Chloroform-d, 99.8% (High purity)	 for NMR	1 mL×5A
040-34571	Dichloromethane-d ₂ , 99.8% (High purity)	for NMR	1 mL×5A
042-34651	Dimethyl Sulfoxide-d ₆ , 99.9% (High purity)	for NMR	1 mL×5A
044-34471	Deuterium Oxide, 99.8% (High purity)	for NMR	1 mL×5A
133-18971	Methanol-d ₄ , 99.8% (High purity)	for NMR	1 mL×5A
021-19501	Benzene-d ₆ , 99.5% (High purity)	for NMR	1 mL×5A

Coming Soon!

Related Product

Code No.	Product Name	Grade	Volume
■ Reference Material for qNMR			
024-17031	1,4-BTMSB-d ₄ Reference Material	TraceSure®	50 mg
020-17033			 50 mg×4
044-31671	DSS-d ₆ Reference Material	TraceSure®	50 mg
040-31673			 50 mg×4
048-33271	Dimethyl Sulfone Reference Material	 TraceSure®	100 mg
135-17951	Maleic Acid Reference Material	 TraceSure®	100 mg
093-06731	4 Internal Standard Set for Quantitative NMR 1,4-BTMSB-d ₄ : 50 mg×1, DSS-d ₆ : 50 mg×1, Dimethyl Sulfone : 100 mg×1, Maleic Acid : 100 mg×1	 for qNMR	1set
■ Standard for qNMR...Standard product guaranteed by Wako, of which purity has been measured by the qNMR method using a reference material. (There is uncertainty in the content.)			
207-20411	1,3,5-Trimethoxybenzene Standard	 for qNMR	500 mg
204-20421	Triphenylmethane Standard	 for qNMR	500 mg
028-19011	Benzoic Acid Standard	 for qNMR	500 mg
166-27911	Potassium Hydrogen Phthalate Standard	for qNMR	500 mg
046-34171	Dimethyl Terephthalate Standard	 for qNMR	500 mg
■ Standard solution for qNMR			
041-33641	DSS-d ₆ Standard Solution (500 mg/L Deuterium Oxide Solution)	 for qNMR	1 mL×5A
020-19211	1,4-BTMSB-d ₄ Standard Solution (500 mg/L DMSO-d ₆ Solution)	for qNMR	1 mL×5A

Listed products are intended for laboratory research use only, and not to be used for drug, food or human use. / Please visit FUJIFILM Wako Laboratory Chemicals site: <https://labchem-wako.fujifilm.com/> / This leaflet may contain products that cannot be exported to your country due to regulations. / Bulk quote requests for some products are welcomed. Please contact us.

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FUJIFILM Wako Pure Chemical Corporation
 1-2, Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan
 Tel: +81 6 6203 3741 Fax: +81 6 6203 1999
 ffwk-cservice@fujifilm.com

FUJIFILM Wako Chemicals U.S.A. Corporation
 1600 Bellwood Road, Richmond, VA 23237, U.S.A.
 Toll-Free (U.S. only): +1 877 714 1920
 Tel: +1 804 271 7677 Fax: +1 804 271 7791
 wkuslabchem@fujifilm.com

FUJIFILM Wako Chemicals Europe GmbH
 Fuggerstr 12, 41468 Neuss, Germany
 Tel: +49 2131 311 0 Fax: +49 2131 311 100
 labchem_wkeu@fujifilm.com

FUJIFILM Wako Chemicals (Hong Kong) Limited
 Room 1111, 11/F, International Trade Centre, 11-19 Sha Tsui Road,
 Tsuen Wan, N.T., Hong Kong
 Tel: +852-2799-9019 Fax: +852-2799-9808
 wkhk.info@fujifilm.com

FUJIFILM Wako (Guangzhou) Trading Corporation
 Room 3003, 30/F., Dong Shan Plaza 69, Xian Lie Zhong Road,
 Guangzhou, 510095, China
 Tel: +86-20-8732-6381(Guangzhou) Tel: +86-21-6288-4751(Shanghai)
 Tel: +86-10-6413-6388(Beijing)
 wkgz.info@fujifilm.com